

Title (en)

AIRCRAFT PROPULSION UNIT AND METHOD FOR VENTILATING AN ENGINE ENCLOSURE

Title (de)

FLUGZEUGANTRIEBSEINHEIT UND VERFAHREN ZUR BELÜFTUNG EINES MOTORGEHÄUSES

Title (fr)

ENSEMBLE PROPULSIF POUR AÉRONEF ET PROCÉDÉ DE VENTILATION D'UNE ENCEINTE MOTEUR

Publication

EP 3728797 B1 20230201 (FR)

Application

EP 18839842 A 20181220

Priority

- FR 1762822 A 20171221
- FR 2018053477 W 20181220

Abstract (en)

[origin: WO2019122761A1] The present invention relates to a propulsion unit (5) for an aircraft, comprising: a nacelle (7), a turbojet engine (1), an annular passage (19) for a secondary air flow, and a pre-cooler device (3) in communication with an engine enclosure (21) and comprising a scoop (25) that opens into the annular passage (19). According to the invention, the propulsion unit (5) is characterised in that it comprises a compressed air supply circuit (27), arranged in the propulsion unit (5) and designed to inject a stream of compressed air into the scoop (25). The invention also relates to a method for ventilating an engine enclosure (21) of a propulsion unit (5) according to the invention, characterised in that it comprises a step of injecting compressed air into a scoop (25) of the pre-cooler device (3) when the turbojet engine (1) is stopped.

IPC 8 full level

F01D 21/00 (2006.01); **B64D 27/40** (2024.01); **B64D 29/00** (2006.01); **F01D 25/12** (2006.01); **F02C 7/14** (2006.01); **F02C 7/18** (2006.01); **F02K 3/06** (2006.01); **F02K 3/075** (2006.01)

CPC (source: EP US)

B64D 29/00 (2013.01 - EP); **B64D 29/06** (2013.01 - US); **F01D 21/00** (2013.01 - EP); **F02C 7/14** (2013.01 - EP); **F02C 7/18** (2013.01 - EP); **F02K 3/06** (2013.01 - EP US); **F02K 3/075** (2013.01 - EP); **F01D 25/24** (2013.01 - US); **F02C 7/14** (2013.01 - US); **F02C 7/18** (2013.01 - US); **F05D 2220/323** (2013.01 - US); **F05D 2240/14** (2013.01 - US); **F05D 2260/213** (2013.01 - US); **F05D 2260/601** (2013.01 - EP US); **F05D 2260/608** (2013.01 - EP US); **Y02T 50/60** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2019122761 A1 20190627; CN 111356822 A 20200630; CN 111356822 B 20220426; EP 3728797 A1 20201028; EP 3728797 B1 20230201; FR 3075865 A1 20190628; FR 3075865 B1 20200717; US 11542026 B2 20230103; US 2020317356 A1 20201008

DOCDB simple family (application)

FR 2018053477 W 20181220; CN 201880074730 A 20181220; EP 18839842 A 20181220; FR 1762822 A 20171221; US 202016907944 A 20200622